



**3E COMPANY** *North America's leader in hazardous materials compliance services.*  
4920 Carroll Canyon Road, San Diego, CA 92121  
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## MANUFACTURER MEMORANDUM SHEET

**Date:** 18-Sep-97

**TO:** MSDS Requester

**FROM:** Konnie Sengchanthalangsy - 3E Company

**RE:** The MSDS you have requested

**Manufacturer:** PURSLEY, INC.

**ProductName:** PLUG START 2 LBS

**Item:** 515817

**Mfg Contact Name:** DIANNE

**MfgPhone:** (941) 753-7851

Per the manufacturer, the MSDS(s) listed below cover the above product.



## 18-18-6 PLUG FERTILIZERS MATERIAL SAFETY DATA SHEET

### Manufacturer's Name & Address

Southern Agricultural Insecticides, Inc.  
P.O. Box 218, Palmetto, Fla. 33561

Phone: 1-813-722-3285  
Chemtrec: 1-800-424-9300

### I. - IDENTIFICATION

Product Names: Plug Fast, Plug Start, Jump Start (18-18-6)  
Chemical Family: Inorganic Salt - Blend or Mixture  
Chemical Name: N/A - Blend or Mixture  
D.O.T. Class: Not Regulated by D.O.T.

### II. - COMPOSITION

#### Hazardous Ingredients:

Health-	Fluoride Salts as Fluorine - 0-1.3%	
	Silica - Quartz (sand) - 0-30%	Cas. No. 14808-80-7
Physical-	Contains 0 to 50% nitrates, which are classed as oxidizers when pure. In these blow thy, are diluted by other materials, but could contribute to combustion if contaminated with organic material such as oil.	

### III. - PHYSICAL DATA

Melting Point: N/A	Density: 1.6
Vapor Pressure (mm/Hg): N/A	Percent Volatile: None
Solubility in Water: Appreciable	pH, 1% Solution: 6 - 7.4
Appearance and Odor: light tan to dark gray granules to powder, slight acid odor.	

### IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A      Flammable Limits: N/A  
Extinguishing Media: Spread out & cool, apply water if necessary.

All grades identified in Section I above are a mixture of inorganic salts, and sometimes contain small amounts of organic materials, and can in some instances be induced to burn. In a fire situation, they may produce toxic and/or irritating ammonia and nitrogen and sulfur oxides. Keep away from sources of heat. Use self contained breathing apparatus with enclosed fires.

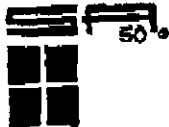
### V. - REACTIVITY DATA

Stability: Stable under all normal conditions  
Incompatibility: Alkalies, heat. Alkalies may cause ammonia release.  
Hazardous Polymerization: will not occur.

### VI. - HEALTH HAZARD DATA

Permissible Exposure Limit: None Established.  
(PEL) OSHA nuisance dust limit of 15 mg. per cubic meter of air as total dust is recommended. Aggih  
TLV: None Listed  
Routes of Entry: Lungs (breathing), Ingestion (orally)  
Toxicity Data: None Found  
Effects of Overexposure: Short Term - May Cause Irritation of skin, eyes, nose or throat.  
Long Term - Long-term inhalation of dust concentrations higher than recommended PEL may cause delayed lung injury. The free silica in those mentioned in Section I, is sand, and little or none is present in the respirable size range.

First Aid	Eyes:	Flush thoroughly with water. See a physician if irritation persists.
	Skin:	Wash thoroughly with water.



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### VII. - SPILL, LEAK, AND DISPOSAL INFORMATION

In case material is spilled: If uncontaminated - Sweep or collect, and use as product.  
If contaminated - Collect in suitable containers.  
Waste Disposal Method: Contaminated material should be disposed of in accordance with applicable local, State, and federal regulations.

### VIII. - SPECIAL PROTECTION INFORMATION

Respiratory Protection: If dust concentrations exceed recommended PEL, use NIOSH-approved dust respirators with approval TC-21C-xxx, until feasible engineering controls are completed.  
Ventilation: Local exhaust or other ventilation that will reduce dust concentrations to less than recommended PEL.  
Eye Protection: If high dust concentrations exist, tight fitting goggles are recommended to reduce dust exposure to the eyes.  
Other Protective Equipment: Optional

### IX. - SPECIAL PRECAUTIONS

No unusual precautions necessary - However, do not allow to become contaminated with organic materials, especially oils, which may cause local heating, or, in rare cases, fire.

This information relates solely to the designated product and is not inclusive for combinations with other materials. This information is given without warranty or representation. Information is based on data we believe to be correct as of the date hereof. This information is furnished solely for your consideration, investigation, and verification. Before using any product READ THE LABEL.